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Abstract

The present invention relates to a high-cadence industrial robot (2) for moving a tool (12) along the three axes of an orthogonal cartesian reference frame. This robot (2) which mainly consists of a deformable bracket (30) including three mutually orthogonal beams (32, 33, 34) at least two of which are mounted slidingly with respect to a support (1) for the robot (2), is characterised in that at least the vertically-displaceable beam (34) is guided along extruded aluminium rails (50) which are fixed to it, and which each include a bearing surface which has been hardened by an electrochemical surface treatment, the said bearing surface becoming housed with sliding in at least one bearing including a polyester bush. The invention in question applies to the production of robots by virtue of which the tool may be displaced at significant speeds and with significant acceleration.

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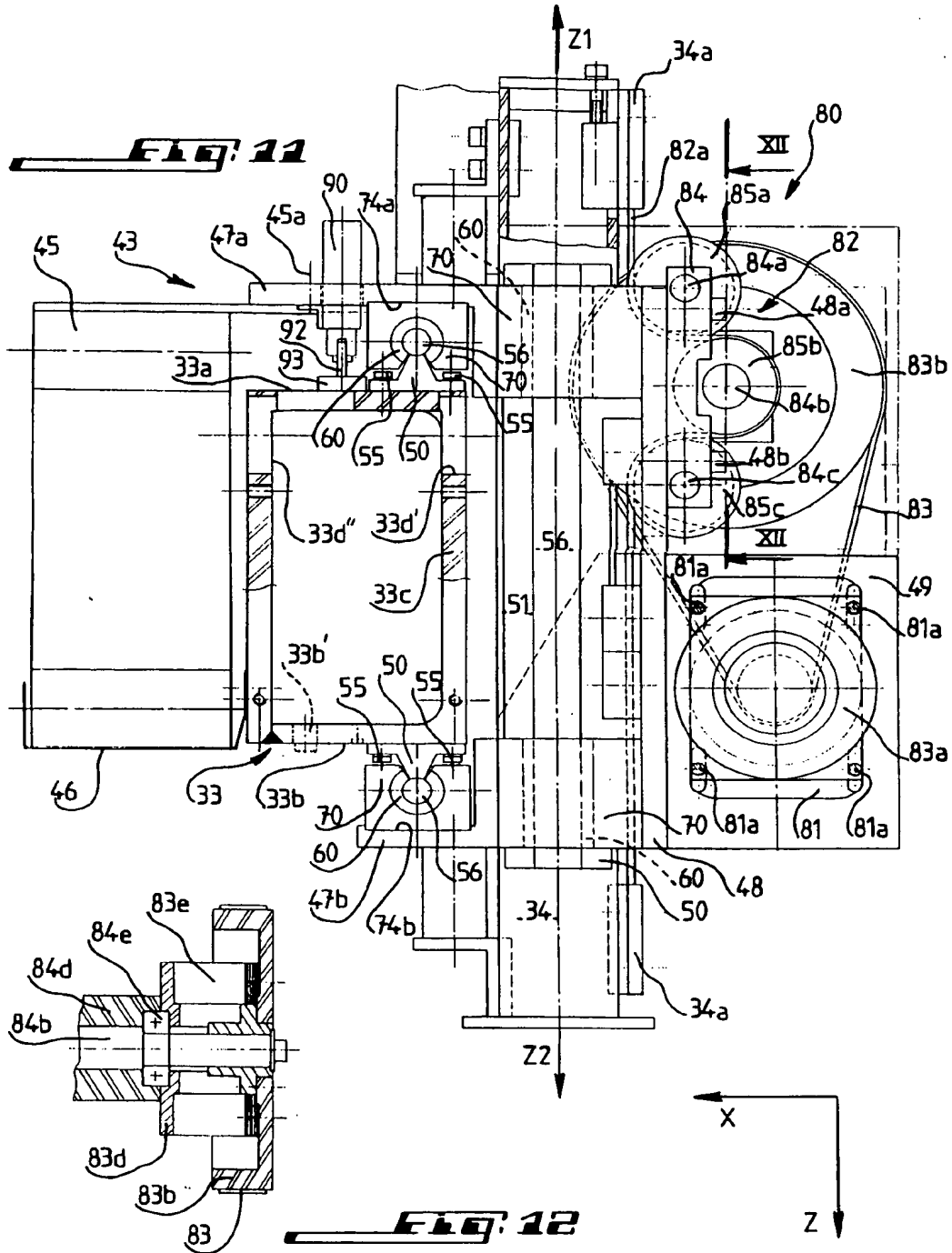
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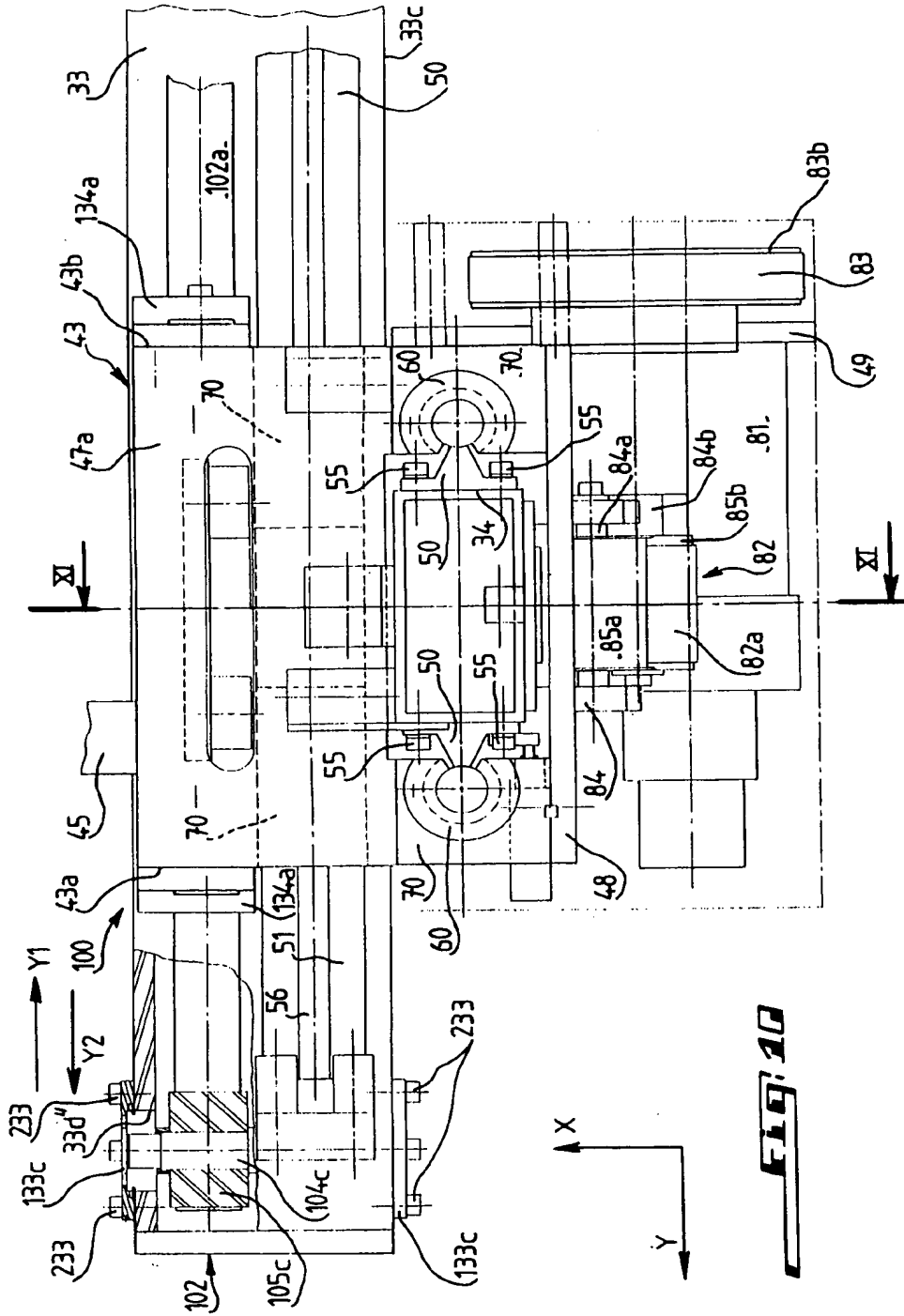


FIG. 5

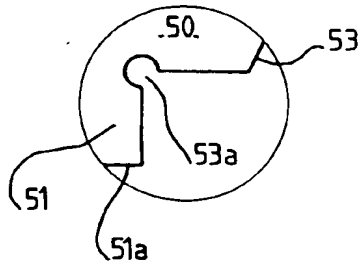


FIG. 4

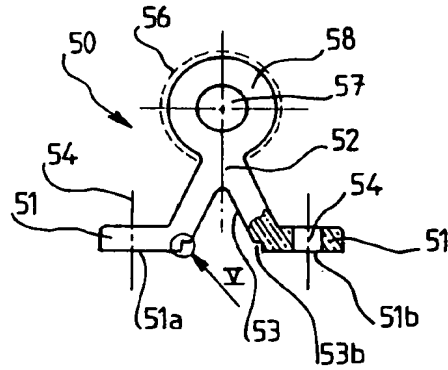


FIG. 6

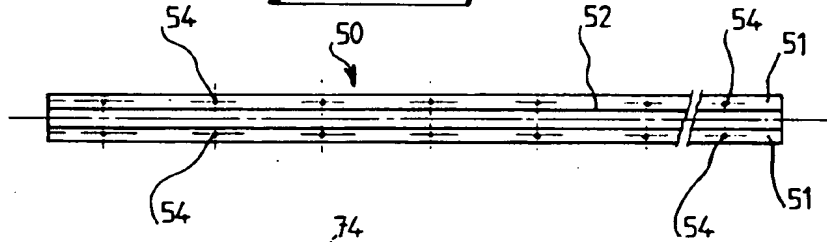


FIG. 7

